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WITH ATLAS & GAZETTEER INDEX



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PRONUNCIATION

THE imitated pronunciations are intended to assist the reader in the enunciation of unfamiliar words, and necessarily, pecially in the case of foreign words, only afford a rough approxition to the actual sound. The signs used are to be pronounced follows—

```
as a in hat
                                                as o in not
a
                                     0
           ,, a in father
ah
                                                " o m note
                                     ō
           ., a in hate
ā
                                                " u m but
                                     u
           " ar in hare
                                     ũ
                                                ., u in tune
           ., o in more
                                                ., ur in lure
aw
                                     ur
           ., e in bell
е
                                                " u m put
                                     00
           .. e in bee
ē
                                     õõ
                                                .. oo m boon
ēr
           .. eer in deer
                                                ,, ow in now
                                     ou
             (e in herd, or
                                     ŭ
                                                 ., a in comma
е
           "lı m bird
                                     th
                                                 .. th in think
           ., 1 m bit
1
                                     dh
                                                 ., th in there
î
           " 1 m bite
                                     gh
                                                 .. ch in loch
ĩr
           .. 1 in fire
                                     zh
                                                " s in pleasure
```

Other consonants are given their ordinary English sound

Shannon, the longest river (c 240 m) of Ireland Rising in Cavan in the Cuilcagh Mountain it passes through Lough Allen and forms the boundary of co Roscommon whence it receives the R Boyle it is then the boundary of co Galway and forms Lough Derg with its tribu taries the Suck and Brosna. As the boundary of co Clare it passes Limer ick and flows into a long estuary which runs into the Atlantic From Limerick the river is tidal and navig able for large vessels smaller vessels can reach Athlone a favourite trout fishing centre The steep fall of the river has been used for a scheme for generating electricity and power from the Shannon is now largely used

"Shannon' and Chesapeake " (and American War Tune 1 1813) a famous fight between the British frigate Shannon under Captain Philip Broke and an American frigate Chesabeake under Captain las Law The Chesapeaks was the larger vessel had more men and a heavier armament but the training and discipline on board the Shannon were superior After sailing out of Boston harbour the Chesapeaks received two broadsides and was boarded and captured The duel was watched by crowds of pleasure boats that accompanied the Chesapeake to witness her expected victory

Shan-si inland province of N China comprises a plateau bounded E by the Tai hang-shan range S and W by the Hwang ho R, and merges into the Mongolian tableland in the N The most habitable regions are the basins of the Fen ho and Wei ho Valleys and the SE and E slopes of the Tai hang shan the interior suffers from lack of rain The chief crops are cereals coal mining is of great im portance The capital is Tai Yuan Area 81 850 sq m pop 12 153 000

Shan States, a number of partly independent States to the E of Burma bounded by Yunnan in China Sam

Shan Languages, see Tai Languages | States which were federated in 19 2 and are part of British India The region is mountainous many of the parallel N -S ranges reaching 5000 ft The chief rivers are the Salween and the Nam To Agriculture tea and cotton growing and mining are the chief industries The chief N States are Hsenwi Hsipaw and Mang Lon the chief S States Tung Keng and Mong Nai Area 62 300 sq m pop 6 1 433 000

Shantung important province of N China comprising the hilly peninsula of the same name jutting out into It is bounded on the Yellow Sca the West by the Hwang ho Valley It contains mountain masses running SW-NE and culminating in the famous Tai Shan in the N The hills are hare but the valleys yield good crops of millet barley wheat maize cotion and hemp An important industry is the rearing of silk worms and coal mining is also valuable. The chief towns are Tsipan the capital in the N Tsaochow and Chefoo a treaty port. Wer hai wer leased by Britain in 1898 was restored to China in 1930 The province is one of the richest and most densely peopled in China Area 56 000 sq m pop 6 34 500 000 Shanty (from Ir chanter =

sing) a song sung by sailors when performing their duties of raising anchors hoisting sails etc. In recent years there has been a revival of inter est in these sones Among the best known are Rio Graide She andoah and Blom the Man Down

Shark, the name for many large fishes of the order Elasmobranchs (qv) which are particularly plentiful in tropical seas and notorious for their voracity One of the largest species however called the basking shark found in British waters and feeding on small fish is comparatively harmless although it may be 40 ft long Still larger and equally harmless is the whale shark of the Indian Ocean which is 50 ft long The most form d and Burma comprising 6 N and 35 S able are the blus shark the hamr e

headed sharl, and the white shark, 1 which has sharp pointed teeth 2 in wide, and measures 30 or 40 ft

(1859-1924). Sharp, Cecil James lecturer on and collector of folk music He published several books of Lnglish folk songs and dances, and was founder of the English Tolk Dance Society

William (Fona Macleod) Sharp. (1856-1905), Scots author His works influenced the Celtic revival, they include Larth's Voices (1884), Romantic Ballads (1886), I rom the Hills of Dream and other volumes of poetry He also wrote novels and works of criticism Under pseudonym of Piona Macleod. he published Pharais (1894), The Sin-Later (1895), Green Fire, The Divine Adventure (1900), and other poems

Shat-el-Arab, river of Iraq, formed by the combined Tigris and Euphrates, flows past Basra (qv) to the Persian Gulf, which it enters through a delta,

length 123 m

Shaw, George Bernard (b 1856). Irish author and dramatist, born in Dublin and came to London at the age His early works were 5 novels (1879-83), of which the best known is Cashel Byron's Profession (later dramatised in blank verse as The Admirable Bashville) As a book-reviewer, music critic, and dramatic critic, he established a reputation for outspokenness In 1884 he joined the Fabian Society and was one of its most prominent He began to write plays in members 1885 and devoted himself henceforward principally to this form of literature His Plays Pleasant and Unpleasant were published in 1898, and Three Plays for Puritans in 1900 From 1901 onwards he wrote the following plays, John Bull's Other Island, The Doctor's Dilemma, Major Barbara, Man and Superman, Heartbreak House, Back to Methuselah, Saint Joan, Getting Married, Arms and the Man, Androcles and the Lion, The Apple Cart (1929), Too True to be Good (1932) and On the

His doctrine of the Life Force, his Socialist propaganda, and his Nietzschean leanings are expressed everywhere with wit and elegance in didactic prose or in humorous dialogue later works include The Intelligent Honar's Guide to Socialism (1928). and Il hat I really wrote about the Wa-(1931)

Shawnees see RED INDIA'S

Shearwater, one of the commonest British species of the petrel family It is about the size of a pigeon, feeds upon fish and offal, and nests in burrows, laving a single white egg

Sheep, ruminant of the genus Our, domestic ited in Europe and Asia in prchistoric times They are reared for wool and their flesh (mutton) and in some parts of the world for their milk, which is extraordinarily rich in fat and casein, and is used for cheesemaking either alone or mixed with cows milk There are long-woolled and short-voolled breeds of sheep, with wool 8-12 and 2-4 in respectively Hair, not wool, is the natural covering of sheep, wool being a primitive type of simple hair composed of two layers (not three as in hair), inner cortex, and outer cuticle The latter has a rough surface Sheep naturally have wool nearest the skin and hair above, though some breeds have no wool at all The wool-bearing sheep have been brought to their present state by long breeding

The Leicester, one of the most widely distributed long-woolled sheep in Britain, is the smallest of the Longwools, with small usually bare head, white face, large nose, and no horns Border Leicester has a long head, wide between the eyes, large black muzzle, small ears, is hornless, and has long soft wool The Yorkshire Leicester or Wensleydale is a large hornless animal with open lustrous wool, and bluish skin on the face and ears and occasionally over the whole body

The Lincoln is the largest breed of Rocks (1933) All these have been sheep in England, has lustrous and produced, and also published in book heavy fleece of very long wool and form with prefaces by the author is the most valuable of the Longwools

The face and legs are white and it is no horns and produces many twins

The Remres Marsh or Lents has a hardy sheep of good constitution and rood for fattenin, irimune from foot rot and liver rot

The short wool ed breeds are numer ons The Sussex or Southwoan has fine close-carled wool and bro n or grey later in the season. The Ryeland im

Oxford Hambshire Dorsat and Shrobshire Don's are local breeds with out horns valuable in their special areas The Some set and D et Horred heep are hardy medium sized animals

with forward ewes which often give fat lambs at Christmas and another set face and short legs though it is not mune from foot rot is an occasional hardy in the \ The Surfolk Down is breed in Hereford and the surrounding lar, ean I beavy and black headed with country producing I licate and purcy





Sh pall Tw -sh





f.e r-word db



Hampshi Dow Ram Lamb

ε v η...-1

There is also a number of site Rochester mountain breeds of sheep in the British Isles, especially the Cheviots, longbodied white-faced sheep, and the Blackface, an extremely hardy small animal with black or mottled face and legs, large spiral horns, and a long tail

Sheep feed on grass almost solely, summer and winter, in many parts, but feeding by forage crops or under cover is increasing in England Animals for fattening are given cotton cake, bruised barley, hay and swedes, varied with linseed cake, oats, turnips, and straw chaff

Sec also Argali, Barbary Sheep,

MOUFLON

Sheep Dip, a liquid which, when diluted with water, is used for washing sheep to free their wool from injurious insects and disease The method employed is to drive the sheep through a tank containing the dip Sheep dip usually consists of tar oils rendered soluble through the addition of soap

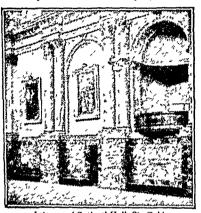
Sheep-Dog, the name for any breed of dog trained for controlling sheep (see Collie), but usually restricted in England to the "rough-coated" breed, known sometimes as the Old Luglish or bob-tailed sheep-dog, which has a short tail and a characteristic gait owing to the lowness of the hocks

Sheep Louse, (or Sheep Tich), a fly which gets into the wool of sheep and sucks their blood. The parasite fixes its head in the skin and causes a tumour The female hatches her eggs in her own body till they reach the pupal stage, when they are fastened to the wool of the sheep remedy, see Sheep-Dip

Sheerness, naval port of the Isle of Sheppey, England, at the mouth of the Medway, on its S bank It has an important naval dockyard The older part, including the dockyard, is known as Blue Town Pop (1931) 16,720 At the battle of Sheerness (June 9, 1667) a Dutch fleet, commanded by

mutton, and second only to Merino Medway as far as Upnor Castle, oppo-

Sheffield, city at the foot of the Pennines in the W Riding of Yorkshire, on the Don, the premier steel manufacturing town of the British Isles, producing cutlery, scissors, surgical and mathematical instruments. Other industries are and engines silver - plating, chemicals, cabinet making, and general manufactures The city has a University (founded,



Interior of Cutlers' Hall, Sheffield

as Firth College, in 1879) Pop (1931) 511,740

Sheffield Plate, the name given to articles made of copper plated with silver by heat. It was invented in Sheffield in the middle of the 18th cent, Joseph Hancock being the first to develop the process and found an industry which afterwards became famous for its craftsmanship The copper and silver sheet were caused to adhere by heat, and were then beaten or rolled out and worked up into vessels. vases, candlesticks, and table ware At first the copper was coated only on one side, but afterwards on both, and copper wire coated with silver also was drawn The earliest productions had the copper hidden at the Admiral de Ruyter, destroyed the edges by solder, but later, silver fortress and shipping and sailed up the fashioned to the exact size of the edge

was applied and soldered on The explosive shell are known as common end of the industry came in the pointed high explosive and armour middle of the 19th cent when electro- piercing Shrapnel is a shell con plating superseded it. The collecting value of specimens of the best period bullets enclosed in a thin steel envelope 13 almost equal to that of silver provided with a time fuse and a small articl s

Sheikh

Sheikh (or Sheik) [SHA K or SHE K] an Arabic title of dignity originally applied to respected men over 50 years of age now borne by head men of Villages and nomadic parties He is all powerful on local matters Sheik ul Islam is ecclesiastical head of the Sunni Mohammedans

Shekel, an ancient Jewish unit of weight and a coin of that weight Fifty shekels made a mina and 3000 a talent Monetary shekels were Originally uncoined ingots of 210 (light shekel) and 420 (heavy shekel) Rrains of silver to Is 41d and 2s Bd in value They were first coined

by Simon the Hasmonean c 139 BC A shekel was divided into 20 gerah Sheldon, Gilbert (1598-1677) Arch hishop of Canterbury He was a Royalist supporter collected money for the exiled Prince Charles

He was Bishop of London (1660) and was preferred to the Archbishopric of Canterbury three years later In 1667 he was made Chanc llor of Oxford University and in the following year established the Sheldoman Theatre there

Sheldrake, the largest and hand somest British duck rather goose like in its carriage and boldly coloured white brown and black the two sexes being almost alike. It usually nests in rabbit burrows in sand dunes Shell, projectile fired from a mortar

or cannon and containing explosive poisonous substances incenduary materials and the like Explosive shell was first introduced early in the 19th cent and soon had a decis ve effect on naval warfare rendering The shells wooden ships useless now used explode eith r by percussion or by time fuse They are filled

sisting of a large number of lead charge of explosive which scatters the bullets at a predetermined interval after firing Gas shells consist of a ca ing containing a volatile poisonous substance and opened by a charge of explosive Smoke shells produce The heavy clouds of smoke and are used for purposes of concealment cendiary shells contain substances

which burn vigorously and are adapted to set buildings on fire The star shell is used for illuminating purposes it contains a parachute to which is attached a case of material which when ignited burns slowly with a brilliant light Shellan for Stick Lac) a natural resin formed by a small insect (Tac chardia lacca) which is parasitic to

certain Indian trees The insects feed on the branches of the trees and the resin is obtained by heating the branches causing the resin to melt when it can be east into sticks. By macerat on of the crude product there is obtained a brill ant red dve known as lac dve now however rarely used Ordinary shellac is of an orange colour a white variety can produced by bleaching with sodium pochlorite Shellac melts at about 80° C Its chief use is in the manu facture of gramophone records is also employed in the compounding of varnishes for the stiffening of hats and in the production of sealing wax and inks See also Adhesives

Shelley Mary Wollstonecraft (1797-1851) English authoress second wife of the poet and daughter of William Godwin and Mary Wollstonecraft Shelley was a friend and patron of her father and conceived a passion for Mary only two months after his remarriage with Harriet Westbrook in 1814 In July of the same year various types of explosives they eloped to Switzerland and in both high and low The chief types of 1816 after Harriet's death they were Shel-

married (see Shelley, Percy Bysshr) Mary Shelley's own works include Frankenstein (1818), and several other romances and books of travel

Shelley, Percy Bysshe (1792-1822). English poet, born near Horsham, Sussex Before entering Oxford (1810). he had written a volume of poetry and several romances of the "Gothic" type in imitation of "Monk" Lewis At Oxford he became friendly with Thomas Jefferson Hogg, on whom, as on Shelley, the ban of the authorities fell after the publication of Shelley's Necessity of Atheism (1811)

In London, he cloped with Harriet Westbrook, an adoring schoolgirl They travelled through Scotland, the



Shelley

quently In 1814 remarried l he Harriet Westbrook in England But I soon after he met Godwin's daughter. Mary Wollstonecraft, with whom he went to the Continent, and later, after Harriet Shelley's suicide in 1816, he married her. His father dying in 1815, Shelley returned to England to receive his inheritance, and published Alastor (1816) He went back to Switzerland, however, with Marv Shelley, and Claire Clairmont, Godwin's stepdaughter, and met Byron

inever to return. He was drowned by accident, oving to the capsizing of a sailing boat, on July 8 1822 body was recovered by Irelawney and cremated on the sea-shore near Via Reggio, in the presence of his friend On his wanderings and during his stay in Italy, Shelley had written many works, including The Cena, a tragedy, and Pronetheus Unbourd, possibly his greatest work (1819), the Wiler of Atlas, Adonais, an elegy on Keats, Epipsychidion, and the Defence of Poetry

CONSULT Hogg, Life of Shelley (1858), Dowden, Life of Shelley (1886), Andre Maurois, Ariel (1923), and the Iulian Ldition (R Ingpen and W L Peckl of Shelley's works

Shellfish, popular name for various land, and marine animals, mostly edible, which have a hard shell, such as the lobster, whelk, and oyster, but more properly settled in restricted to the last two and other species of molluses

Shell-money, a primitive medium exchange. A tusk-shell was used of exchange ley's first by the Indians of Alaska and Caliimportant forma, 25 strung end to end were work, ap-lequivalent to c. £50 Wampum shellpeared in beads (qv) were common among other N American Indian tribes both met Godwin, as ornaments and currency Cowry a well-known | shells were so used on nearly all the coasts of the Indian Ocean Bengal 3840 equalled a rupce, and the he visited annual import was worth (30,000 him fre-In W Africa, until c 1850, mory shells were commonly used for all trade, and were threaded in strings of 40 or 100, 2000 made a dollar Land-snail shells, cut into circles, were used in Portuguese W Africa, ring-cowries in Asia ground shellbeads in the Solomon Islands, flaked shells in the islands N of New Guinea, and many varieties in N. Australia

Shenandoah, river of Virginia, dwin's USA, c 100 m long, flowing be-They tween the Alleghames and the Blue returned again in the same year Ridge Mountains from near Staunton The Revolt of Islam appeared in 1817, to Harper's Ferry, where it joins the and in 1818 Shelley went to Italy, Potomac The valley was the scene of Shen-a

Civil War Shen-si, province of W China The chirate is dry and cold especially in the N Agriculture in the valleys

of the Wes and Han is important and wheat and other cereals cotton and fruit are grown Sianfu near the Wei is the capital Area 75 200 sq m pop 1 250 000

Shepherd a Purse, common weed belonging to the cruciferrus family distinguished by the inversely heart shaped and flat teed pouches varying from a few inches to 2 ft according to the soil The root leaves are pinnate the stem leaves toothed and arrow-shaped at the base The whole plant is hirsute

Sheppard Hugh Richard Lawrie. English divine late vicar of St Martin in the I selds London where he es tablished a reputation for his broad cast ermons. He was ordained in 1907 and in the same year became chaplam to Oxford House of whi h he



V ry Rev Dick

many engagements in the American was head 1909-10. He served as a chaplain in the World War As vicar of St Martin in the Fields 1914-27 he was largely responsible for establishing the reputation for broad mindedness which that church now holds Returng on account of ill health he was Dean of Canterbury 19°9-31 He then returned to St. Martin's as locturer. He was made a

Sheraton

Companion of Honour in 19 7 Sheppard, Jack (1702 1774) English criminal a workhouse child was first arrested when he abandoned his apprenticeship and thenceforth took up robbery as a career He escaped from jail many times notably from the condemned cell in Newgate (1724) He was taken again and hanged at

Tyburn Sheppey Isle of island in N E Kent, separated from the mainland by creeks which form part of the mouth of the Medway The island is low and flat and suffers encroachment by the sca Agriculture and sheep rearing are carried on The chief towns are

Queenborough and Sheerne s Sheraton, Thomas (1751-1806) last of the 4 great English cabinet makers of the 18th cent He continued the pursuit of lightness combined with strength begun by Hepplewhite and his furniture is structurally excellent The influence of the Louis XVI period is seen in his general avoidance of curves He used carving very sparingly and was much more partial to inlay than his predecessors The chairs are relatively small the backs have top and bottom rails the treatment of the intervening space varies In some examples there are three or five upright splats the central one being broadest and often inlaid in others the splats intertwine or even cross in an X pattern in later examples the space is partly occupied by a slightly carved horizontal member Turniture legs at first followed the style of Hepplewhite tapering downwards and cometimes ending in a spade foot the arms of elbow chairs corresponded

In Sh raton a later period the turned

The sideboard reached asthetic finality Bedroom furniture, including wardrobes and chests of drawers, became most attractive Small objects, such as tea-caddies, knife-boxes, and trays, often had an inlaid shell or scroll medallion, in addition to the edging inlay Mahogany was his favourite wood, though some fine satinwood and painted furniture was made, frequently decorated with painted panels

Towards the end of his life, Sheraton attempted to copy the French Empire style, with deplorable results, but in his best period he produced work almost equal in quality and design to the masterpieces of Chippendale and Hepplewhite He published in 1791 a book of designs called The Cabinet-Maker and Upholsterer's Drawing Book

Sherborne, market town, Dorset, on the R Yeo, centre of an agricultural The abbey church (formerly a cathedral) is Norman, Early English, and Perpendicular The public school was founded in 1550 Pop 6500

Sheridan, Richard Brinsley Butler (1751–1816), orator, wit, and dramatist, born in Dublin and educated at Harrow, Waltham Abbey, and the Middle Temple In 1772 he secretly married Elizabeth, daughter of Thomas Linley, of Bath, the musician produced his first play, The Rivals, in 1775, this was followed, in the same year, by St Patrick's Day, a farce, and The Duenna, a comic opera In 1777 came his Trip to Scarborough, and his masterpiece, The School for Scandal The Critic appeared in 1779 Sheridan revived the Restoration comedy of manners, investing it with additional grace and wit and omitting its indecency He entered Parliament in concerned 1780, and held several high positions in the Whig and "All the lalents" ministries, his speeches at the trial of clude Warren Hastings established his repu- ger's tation for oratory He was never out (1930) of debt, and died in relative poverty He was the most caustic wit of the age | might in Sep-

Sheriff, originally the chief ad- tember (1931), ministrative officer in each county a novel

leg, with slight mouldings, appeared [His importance has greatly declined, but he still has certain duties to perform, e.g. he is often the returning officer at parliamentary elections; he returns the jury in criminal trials, writs of execution (q v) are addressed to him, in the Shoriff's Court he has jurisdiction to assess compensation for land acquired compulsorily statutory powers, to assess damages in undefended actions, etc. The period of office is one year, and the appointment is made by the King at a ceremony known as " pricking the sheriffs." from a list submitted by the judges on Nov 12 each year

Sherman, William Tecumseh (1820-1891), American soldier, took part in the war with Mexico (1846-8), and, after a period in banking and legal business, volunteered at the outbreak of the Civil War (1861), and was made brigadier-general. He took part in the battles of Bull Run and Shiloh, and was placed in command of the Army of the Tennessee in 1863 and of the military division of the Mississippi with a force of 100,000 In 1861 there occurred his famous 300-mile march through Georgia, "from Atlanta to the sea" In 1865 his second march, through the Carolinas, culminated in the defeat of Johnston, which led directly to the termination of the

Sherriff, Robert Cedric (b 1896). English dramatist, served. the

BEF 111 the World War, with which his play, Journey's End (1928), is His other works in-Bad-Green and The Fort-



Shintousm

's Hertogenbosch 's Hertogenbosch, capital of N Bra | whole body were used in the late bant Holland lies on the Dieze at the Minoan Age of Crete confluence of the Aa and Dommel It contains a 15th-cent, cathedral Pop (1932) 43 000

Sherwood Forest in ancient times extended from Nottingham N to Workson and was c 20 m long and from 5 to 9 m wide. It was a Crown forest from the time of Henry II and a favourite hunting ground of several monarchs It is traditionally noted as the refuge of Robin Hood and his men Disafforestation has gone on at differ

ent periods but patches still remain to remind one of the ancient character of the district. Shelland (or Zetland) a group of islands (numbering c 100) lying off the N coast of Scotland constituting a county of Scotland area & 550 sq m the largest islands are Main

land Unst Fetlar Yell Bressay and W Burra Foula and Fair They are rocky and bare and the chiff drop steeply to the sea The pop (1931) 21 400 who inhabit 24 only of the islands are engaged in sheep- and pony rearing fishing and the production of tweeds and knitted articles Small crofts yield oats batley and potators The chief town is Lerwick on Mainland Shiah, or Shi ster one of the two chief

Mohammedan sects differing from the Sunni (qt) mainly regarding the question of the rightful succession in the religious leadership of Islam The Shutes maintain that the true successor of Mohammed was Ali and that Abu Bakr Omar and Othman were usurpers Some members of the sect pay to Alı a veneration hardly

himself They are mostly found in See also MOHAMMEDANISM Shield, a piece of armour worn gener ally on the left arm for the purpose of less than 2d defence which came into general use about the time of the Bronze Age

The Bronze Age shield resembled the Highland targ and was circular with a central boss and several studs Early Greek shields were made of ox hide and were shaped like a figure-of eight they were round or oval From the 4th cent B C. shields began to carry a device Roman shields were first Norman shields round then oblong were long and late shaped and gave rise to the form depicted in heraldry Shields continued to form part of the soldiers armour until after the introduction of firearms Shield Fern, various forms of the

genus of ferns Aspidium Shield of David (Heb David) a device in the form of two crossed triangles forming a six pointed

star Its origin is uncertain though it appears to have been used in Hebrew re ligious ornamen tation and as a Icwish emblem as far back as the 1st cent AD In modern times it

has come to serve as a Jewish national emblem By some it is held that the crossed triangle is a fanciful calligraphic form of the name David as written in Hebrew

Shi ites, see Shian

Shilling English silver coin worth 12 pence 20 of which are equivalent to I pound The coin was first struck in silver in 1504 and milled by Charles The standard fineness of silver for less than is accorded to Mohammed comage was originally 925 but this was reduced to 500 in 1919 present shilling is therefore token money it is actually worth

Shingles see HERPES ZOSTER

Shintousm, the ancient national The usual materials of which it was faith of the Japanese Shinto— the constructed were wood hide stretched way of the spirits—is the Chinese over a wooden or wicker frame or name the native designation being metal Convex shields, protecting the Kami no-michi Shinto has no sacred

books or distinctive moral code, and is wood, through the bark cance, in in its main features a simple system of which a skeleton or framework of reverence for ancestors and patriotic There is no public worobservance ship in the Western sense, but there are Shinto temples and priests, and a number of domestic ceremonies are Shinto recognises an enorperformed mous number of gods, and seems in earlier times to have included fireworship and even human sacrifice It has in course of time borrowed much from popular Buddhism, and many Japanese follow the observances of both religions

A hollow vessel built for Shin travel over the water, and provided with means for propulsion and guidance, known to mankind from the Stone Age onwards Accessory to propulsion and guidance are means for protection against rough water and for

stabilisation

The physics of a ship's buoyancy and stability are discussed under HYDRAULICS Buoyancy and stability are easy to obtain, but in practice shape is decided in the first place by the maximum ease of propulsion, and in the second by seaworthiness

Sailing Vessels -The above considerations apply to boats propelled by human and mechanical power But in the sailing boat, capable of sailing to windward, an entirely new set of considerations arises The sail is arranged so that it can be set at any desired angle by allowing it to swing around the edge by which it is attached to the mast It is of canvas, and may be stretched on spars, the free end of the lower spar or boom being held to the boat by a sheet (rope) When the wind strikes the sail at an angle, it exerts upon it a pressure in exactly the same way that the relative wind exerts a lifting force on a moving aeroplane

Development of the Ship The earliest forms were the dug-out canoe,

wood or wicker is covered by bark. which is easily worked

The Egyptians were certainly the first to build ships in the modern manner They had no supply of large trees from which to make dugout canoes By 3000 BC they were building large sailing-vessels. navigating the Mediterranean over a

range of several hundred miles

The Vikings We are well supplied with remains of the early ships from our own part of the world, many dug-outs from the Stone Age having been preserved The most remarkable remains, are, however, the Viking ships Wooden ships can be either carvel built, with planks butting together, or clinker built, with planks overlapping The Scandinavians invented the clinker method which has great advantages for boats intended to be beached We use copper rivets, the Vikings used iron, but in exactly the same manner as ourselves The Vikings used sail, and the lines of their ships were excellent, Viking ships were doubleended, with bow and stern alike The invention of the central rudder does not seem to have come about until the 12th cent

See RUDDER The next invention was the bowsprit and the development of more efficient rigging (q v) This took place in the 15th cent, and we now get the clear distinction developing between the fore-and-aft and the square rig, each of which finds its place as a means of propulsion There is no fundamental difference in the mode of operation of the two rigs, but merely the practical fact that the square sail can be set to receive wind from any quarter upon the same side of it, whereas the fore-and-aft sail is exposed to the wind on one side or another according to the direction The fore-and-aft sail is a comparatively made of a single log, and the coracle, early invention in all the forms in which a flexible boat of skin on a wicker it is used in modern sailing-boats framework, developing from the raft | The largest modern sailing-ships have These converge in the ship built of composite rigs but until fairly recent Ship times big ships were all square rigged | guns no doubt leading to a diminution

cent brought the development of the jib sail was introduced. This sail modern sailing hip with several masts can be added to other sails without and a number of ails the ships at an extra rig and is very u eful for the beginning of the century had only one mast and one sail It is supposed that the extra masts (at first as in times has been entirely in the field many types to-day smaller than the main mast) developed from flagstaffs harly in the 16th cent there was great boats tending to be supplanted by competition to build ships which reached a length of e 250 ft and had several masts up to five To this but here again the aeroplane t nd period belongs the expleration of the world and the beginnings of world wide commerce

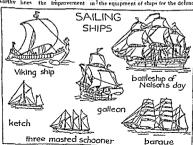
Chippers The 10th cent development of fast sailing-ships or cl prers showed what could be done with Mountains carrying the road from good design for cargo-carrying pur developed speed to the utmost 18th-cent war-hips which continued (1877-8) to be much larger and heavier than merchantmen developed more sea Charles I in Oct 1631 ostensibly for worthy lines the improvement in the equipment of ships for the defence

Masts The first half of the 15th in deck work About this time the manceuvring

The development of sail in modern of sailing vachts even small commercial sailing ships such as fi hing power vessels Sail is indispensable for Arctic and similar excloration to supersede present method also LACHTS STEAM ANI OTHER POWER DRIVEY SILIPS SUBMARINE SHIPPING RICGING Shinka Pass, a pass in the Balk...n

Rumeha to Bulgaria and Adrianople poses and modern yachts have It was the scene of several engage The ments in the Russo Turkish War

Ship money a tax levied by



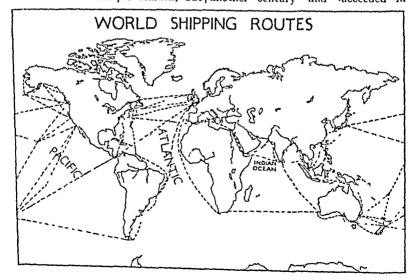
of the coast and maintaining command | they were raiders rather than traders of the sea. The legality of this tax was denied and tested by Hampden, but he lost his case before a Bench said to have been "packed" There were many precedents for this tax, one as late as James I, but Charles sought to extend it to the whole country, instead of to the maritime counties effect it was merely a means for filling the King's purse, and it became a prominent factor in the Parliamentary dispute with the King leading to the Civil War

Shipping Sea transport was developed among the earliest Mediterranean civilisations, notably in Crete while the Phœnicians traded with all the Mediterranean coasts, in the Atlantic. Baltic, and in Britain in the 6th cent In the 5th cent BC Athens was, for a time, the leading sea power in the E Mediterranean, while, in the W, Carthage remained the chief maritime nation till destroyed (146) BC) by Rome, which was compelled to become a maritime empire in the

In the Middle Ages the Genoese and Venetians dominated Mediterranean trade, until, on the covery of America, the W. position of Spain and Portugal gave them a tremendous advantage in the new Ocean routes were tentatively trade explored, the W Indies were reached in 1492 and Calicut in 1498, while in 1519-22 the world was first cir-

cumnavigated by Magellan A large and varied ocean trade now grew up, chiefly in the hands of Spain, which included treasure from America, silks and spices from the East, and slaves from Guinea

Luglish-Dutch Rivalry Meanwhile English merchantmen were challenging the supremacy of the Hansa fleet in the N of Europe, and far-sighted navigation laws and good shipbuilding soon made their vessels the most efficient on the seas John Cabot sailed to N America from Bristol in 1197, but, hampered by sovereignty in the W, England turned process In the N of Europe, the her attention in other directions for Norsemen were intrepid seamen, but another century and succeeded in















opening up communication with Russia! The Dutch made via Archangel great headway, established themselves in the E Indies, captured a large part of the Oriental and Mediterranean trade, besides taking the lead in the Sea fishing industry Navigation Acts of 1651 and 1660 recaptured much trade for British ships, and this continued to increase steadily with the colonising of the 18th century, while Holland, involved in European wars, declined as a mari-By 1800 the important time power E Indian trade was almost entirely in British hands

The Steamship Lia The Industrial Revolution in England, with its enormous resultant increase in trade, and the simultaneous paralysing of continental rivals by the Napoleonic Wars, put British shipping in an unequalled position, which it easily maintained Various revolutionary changes, such as the application of steam to sea transport in 1819. the introduction of iron vessels and then of steel ones in 1872, were also first experimented with in this country. which thus obtained an important lead in subsequent development

Although a regular Atlantic service by steam was inaugurated in 1840. it was not until 1885 that the tonnage of steam exceeded that of sail In 1858 The Great Lastern of 19,000 tons was launched By 1870 Great Britain owned 1,200,000 tons of shipping, her nearest rival being the United States with 200,000

Ocean Routes During the 19th) cent the great modern ocean trade! routes were gradually developed, as industry and food production became specialised in different parts of the The transatlantic route by which England imported cotton and other raw materials from America, and shipped back textiles and machinery, monopolised by the L India Com- from midnight to midnight pany, were the most important The

greatly increased the volume of Oriental trade

After the gold rush of 1850 the route to Australia grew steadily in importance with the growth of the wool and grain traffic, while by the end of the century the rapid development of S America had started an important trade with Rio and the River Plate, coal and machinery going out from England, and wheat and meat returning

Period Great Britain Post-War continued to own c 45 per cent of the world's tonnage until 1913, in spite of large increases in the American and German merchant fleets The World War, in spite of heavy losses, brought great prosperity to shipping in the transport of troops, war material, and provisions, which were chiefly handled

by British ships

The heavy war losses (8 million tons of British shipping alone) led to a tremendous increase in shipbuilding. chiefly by America and Japan, and by 1923 the world's tonnage was onethird greater than in 1913, while the British share had decreased from 43 per cent to 34 per cent This increased tonnage was far more than trade warranted and, coupled with the dislocation of many pre-War routes, produced an excess of supply over demand which remained uncorrected in 1933 In that year a subsidy was proposed for British shipping, in order to enable it to cope with heavily subsidised foreign competitors

Ships' Watches. Timekeeping on board ship is regulated by a system of time zones of 15° of longitude, there being therefore 24 around the earth. Zero zone is bisected by the meridian of Greenwich, zones to the W are numbered consecutively and given a positive sign, and those to the E a negative sign These signs give the number of hours to be added or suband the route to the Far East by tracted to Greenwich mean time, time the Cape, which handled the rich trade | being reckoned through the 24 hours

Time is announced on board ship by opening of the Suez Canal in 1869 striking a bell every half-hour.

21

24 hours are divided into seventhigh. It is related to the herons and watches beginning at noon (five storks but distinguished by its huge watches of four hours each and two duck like bill which has a small hook dog watches of two hours each) The watches are as follow

H atch	Tun
A ternoon Fi st Dog Lan or Second Dog First Muddle Morning F re non	Noon-4 pm 4 pm -6 p.m 6 pm -8 pm. 8 pm -mkinight Mulnight-4 a.m 4 .m -8 am

Shipton Mother in English legend a prophetess of Knaresborough Yorks née Ursula Southill (b c 1487) There is no real evidence of her existence but she was popularly believed to have occult powers and to have fore told the great Fire of London (1666) and the Civil War

Shiraz, ancient city of Persia capital of the Fars province in a fertile plain surrounded by high mountains which separate it from ancient Persepolis in the NE and the Persian Gulf in the SW and S The city contains many beautiful mosques world famous rose gardens and tombs of the great poets Sa di and Hafiz The chief industries are silver work mosaics rug making and the manufacture of silk and cloth 35,000

Shiré river of E Central Africa Length c 3 5 m

Parliamentary elections

rags and wastes and re-spun. It is chains,

large grey

generally mixed with cotton or new In modern times great improvements wont

at the tip It is commonest in the swamps of the Upper Nile Shoes and Boots | Foot covering for

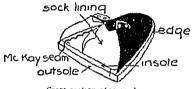
various purposes is almo t universal but the modern boot and shoe made up of stuff sole and fierable upper was a luxury confined to the better situated classes until modern times though its invention is certainly very ancient Three primitive types of foot gear are the sandal a sole attached to the foot by cords of leather or other material the moc casin a piece of leather wrapped round the foot and sewn along the instep and the wooden shoe hollowed out of one piece of wood The shoe is a combination of the moccasin and the sandal and the top boot already used m the Minoan Age is simply an extension of the shoe Boots with wooden soles and leather uppers commonly known in England as clo is or pattens are in use in many parts of the world and are worn by work people in the N of England especially in Lancashire The gooden shoe or sabot as stall worn in Holland and parts of France it is made large enough to

be lined with straw or hay High boots of an elaborate descrip tion were known in Babylonia and Syria in 3000 BC but throughout the East the common wear was the chief tributary of the Zambezi flows sandal which is more comfortable in from Lake Nyasa impeded by many a hot climate. The Greeks and falls notably the Murchison Falls Romans were it the Roman Senator was however distinguished by his high heeled shoes of red leather. The Shire Moot, in Saxon times in Eng. high heeled shoes of red leather. The land a meeting of all the free men of a shoe was again developed in medizeval shire for transacting judicial and Europe and its form was subjected to administrative matter pertaining to many changes of fashion the long the shir Later it became the shire pointed toes of the 14th cent being court and played a part in early particularly striking these reached a length of _i ft in Edward II s reign Shoddy wool obtained from woollen and were fastened to the knee by

have been made in the quality and Shoe-bill, (or Il hale headed stork) a range of materials used for boots and bird 5 ft shoes New methods of tanning Shooting

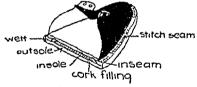
lcather wearing qualities, and the use of soles made wholly or partially of rubber has re-established the Emperor's power The plimsoll become very general shoe, having a canvas upper vulcanised to a rubber sole, was originally developed for wear on board ship, but is l much used by landsmen and children Sea-boots of rubber are replacing the earlier top-boots of greased leather) worn where wading in water is necessary, the fisherman uses waders which reach to the thigh

Hand-sewn shoes, although superior in wearing qualities, are so much more



Cross section of sewn shoe

expensive than machine-made shoes, latter have practically replaced the former Soles may be attached by welting or by stitching Welted shoes are now made



Cross section of welt shoe

sewing in a manner which imitates the hand-sewn article, and other types are similarly finished, the tacks first used being substituted by fine wire staples, so as not to interfere with the work on the sewing machine

Shogun, originally a Japanese general commanding in the field, Yoritomo first being given the title in 1192 by the Emperor Takahıra The post was held by successive military leaders

and impregnating it with took over the ruling power, and his various materials have improved its hereditary successors in the Shogunate held it until the revolution of 1867

> Sholapur, district and city of British India, situated in central Bombay Presidency Area, 4460 sq m, pop district, 744,000, city (1931) 121,650

> Shooting, the sport of killing game with a shot-gun, or "fowling-piece" During the 18th cent it superseded hawking, hunting, and fishing as the principal British field-sport game-birds," ie those which have a legal "close-season," and to kill which a "game-licence" is necessary, are pheasants, partridges, red-grouse, and black game, ptarmigan and capercaillize are confined to Scotland Birds which are shot for sport, but are not legally "game," are known as "wild fowl," and include all kinds of wild duck plover, etc. Snipe and woodcock, though they are strictly speaking, "wild fowl," are usually classed among game-birds The only British quadrupeds (" ground game "), killed for sport with the shot-gun are roe-deer, hares, and rabbits. In Scotland the red deer is stalked and shot with the rifle

Pheasant-shooting begins on Oct 1 and continues till the end of Jan The pheasant has for many years been specially bred for sporting purposes, and is now one of the commonest of game-birds It frequents "coverts," or woods, with plenty of undergrowth

Partridge-shooting lasts from Sept 1 to Jan 31 Partridges, which consort " coveys," together ın frequent pasture and arable land, and especially root-crops

Grouse-shooting lasts from Aug. 12 to Dec 10, and takes place chiefly on the moors of Yorkshire and Scotland, and in the Scottish Highlands

Cartridges and breech-loading guns have been known since the 16th cent, but early "fowling-pieces" were generally muzzle-loaders, a charge of loose powder and shot being rammed down with a ramrod The first really until, in 1603, the Shogun Tokugawa efficient type of cartridge with an



land has won the shield 8 times and steward is now common in all trades.

England 6 times

Miniature rifles make it possible to practise rifle-shooting on covered ranges of 25 yds and upwards rifles are of 22 calibre, or a service rifle can be used with a "Morris tube" fitted inside the barrel The light rifle championship competition is held annually for the Alexandra Cup presented in 1907, under the auspices of the Society of Miniature Rifle Clubs

Shops' Acts, legislation to improve the conditions of employees in shops In England persons under the age of 18 may not be employed in a shop, (that is, any premises where any retail trade or business including that of a hairdresser, is carried on) for more than 74 hours, including meal-times in any week, and must not be employed after 1 30 pm on at least 1 week-day each week Intervals for meals must be allowed In all rooms of a shop where female assistants are employed, scats in the proportion of at least one seat to every three female assistants in each room must be provided, in a suitable position Every shop must be closed not later than 1 p m on one weekday each week, which may be fixed by the local authorities, who have also pover to fix a closing hour, not earlier than 7p m Special provisions deal with shops where more than one business is carried on, as combined post offices and shops, etc. Under the Shops' (Larly Closing) Acts, every shop must close not later than 8 pm on every day except Saturday, when 9 pm is relating to the sale of meals, food, liquors, medicines, newspapers, fruit, sweets, icc-cream, table waters, etc

Shop Stewards, representatives of the Trade Unions who make reports of local conditions, enrol new members, and sometimes act as spokesmen of the men to the employers Under the War-time industrial truce, the Shop negotiation

Shore, Jane (d 1527), mistress of Edward IV of England, left her husband, William Shore, a gold-mith by trade, for the Court in 1470 was popular at Court and among the people, and gained considerable influence over the King and, after his death, the Marquess of Dorset and William Hastings The Duke of Gloucester (later Richard III) had her accused of sorcery and publicly

punished She died in poverty Shorthand, system of graphic notation making possible the recording of speech with greater speed than by ordinary writing. It was practised, and brought to a high state of perfection, by the Greeks and Romans, and the Tironian system of the latter survived to mediaval times. Modern shorthand originated in England, and the first system vas that of Timothy Bright (1588) Pepys wrote his Diary in the system of Thomas Shelton (1630) These, and the many other early systems, were based or orthographic spelling. The idea of using sound instead of the alphabet as a basis was first used by William Tiffin (1750) Pitman's system first appeared in 1837, and soon attracted attention by reason of its methodica classification of speech sounds and its use of abbreviations It is marred by such intricacies as the distinction between thick and thin strokes, but i remains probably the most widely used The chief rival of Pitinan' system is that of John Robert Gregg the hour fixed There are exceptions | who brought out his first book in 1888 The main principles of Gregg's system are a cursive, naturally sloping script as distinguished from a geometrica script, and the insertion of vowe signs without having to lift the per Experts in these last two systems hav attained a speed of more than 25 words a minute

Short Parliament, The, summoned b Stewards were given wide powers of Charles I on April 13, 1640 When These powers have since refused to vote supplies till grievance been withdrawn Originally only in were redressed the King dissolved if skilled unions, the office of shop after it had sat for only three weeks, o Short Story Shrewsbury May 5 1640 It was followed in Nov 1 It in wide the object being to lodge

by the Long Parliament (q v) the coins within the Short Story The A class of fiction one form of the game the player who d struct both in quality and form from the novel Brevity is not enough to the winner

make a short story and conversely a story as long as Henry James & The Turn of the Screep (40 000 words) yet remains strictly within the limits of the short

Artistic unity concentration and condensation a scrupulous re I ction of all matter which has not its in vitable and necessary place in the

complete mosaic are the true essentials of this form of fiction and far more than its brevity distinguish it from the

more loosely knit novel Examples Although excellent ex amples of it may be found in the older literatures in the Bible in the Decam eron and in many folk stories never

theless it is only in modern times that the short story has been recognised as a separate branch of literature Its acception belongs to America and in the first instance to the Sketches of Washington Irving which appeared early in the 19th cent and the Tales of Nathaniel Hawthorne a little later Of the group of French short story writers of the late Nineteenth

Anatole France were the most promi The line of American short story writers was continued by Bret Harte Mark Twain and Henry James To Rudyard Lipling we owe the d velopment of the short story in England and subsequent develop ment in America for he was the

model upon which O Henry and his innumerable imitators worked. The art of short story writing has become an important feature of modern litera ture and such writers as Katherine Mansfield and A & Coppard have

brought it almost to perfection Short term Debt, see FLOATING of Ireland (1"13) and Treasurer (1714)

DEBT Shove-hallpenny a game played on accession of George I whose Lord a marked board in which halfpennies Chamberlain he was until his resigna

the board with the ball of the thumb | the dukedom The board is divided into 9 beds

first has 3 coins in every Shrews (or Shrew M: e) the name for

beds

a family of mammals of the order Insectivora (7 t.) resembling mice and rats in appearance but distinguish able by their long flexible shouts and

d fferent teeth Shrews are plentiful all over Europe Asia Africa and N America and live mostly on the ground sheltering in burro vs but some are There are three Briti h aquatic species the co imon shrew the pr riv shrew and the nater shrew pigmy is the smallest British mammal but there are several smaller kinds of shrew elsewhere which are the timest of

all mammals not much over 1 in long They all have a scent gland on the sides of the body this makes them distasteful to cats which will kill but not eat them Shrewsbury county town of Shropshire on the R Severn Among its industries are in Juded the manufacture of rolling stock and tanging flax spinning and brewing Shrewsbury has an ancient castle a Norman abbey Century Guy de Maupassant and and a famous public school The town

is the seat of a Roman Catholic bishop Pop (1931) 58 000 Shrewsbury Charles Talbot, 12th Earl and Duke of (1660-1718) English politician was one of the seven v ho invited the Prince of Orange to Eng land in 1688 He was created Duke in 1094 After serving twice as secretary of State (1688-90 1694-6) h was accused of treason for having con ducted correspondence with James He resigned in 1700 and lived abroad until 1 0" On his return he joined the Torses and was made Lord Chamberlain (1710) Lord Lieutenant

On the death of Anne he aided the or discs are jerked from the edge along from in 1715. He had no successor in Shrewsbury John Talbot, 1st Earl of Orleans, and was captured at His campaign of 1434-6 Patay (1429) saved Normandy for England Hel won the victory of Crotoy (1137) Offa's Dyke (qv) to defend it from and then recovered Harfleur (1140) In 1452, after a further campaign in Ireland, he returned to France to aid the Gascons, but fell in attempting to raise the siege of Castillon

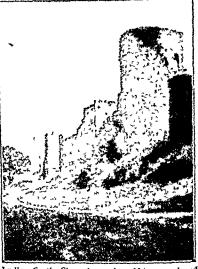
Shrikes (or Butcher-h rds) rapacious mostly insectivorous birds, of which the best-known British species is the red-backed shrike, which is a summer Although smaller than visitor thrush, the shrike feeds upon mice small birds bees, and a variety of insects. It derives its second name from its habit of storing the carcases of its victims by impaling on the thorns of

the haw tree

Shrimp, name of a group of small crustacea of the order Macrura Two: edible varieties are found in Europe, called respectively Red and Brown, on account of their change of colour when boiled. The red shrimp is like a small prawn (q v), with a similar toothed beak, but differing by having the second pair of legs very long and many-jointed The brown shrimp, to which the name properly belongs, is not so flattened, has a short beak, and the first pair of legs provided at the end with a closable book

Shropshire (or Salop), English county on the Welsh border, bounded N by Flint and Cheshire, S by Worcestershire and Herefordshire, E by Staffordshire. and W by Radnorshire, Montgomeryshire and Denbighshire The N and E portions of the county lie in the Severn valley, the W and S are hilly, comprising the Caradoc range, Clun forest, the Clee Hills, and Wenlock Edge The chief river is the Severn county is agricultural, barley and oats tree is largely artificial being the main crops, cattle and

of (c. 1375-1453), English soldier, after | dairy farming is extensively practised. serving in the Welsh Wars and in The chief towns are Shrewsbury (the Ireland, fought in France at the siege | county town) O westry, Lucilon, and Settled by the Romans, Ironbridge Shropshire was annexed to the kingdom of Mercia by Offa, who constructed



Ludion Castle, Shropshire, where Milton produced 'Comus' in 1834

Welsh invasions Area, 1,347 sq m; pop (1931) 244,160

Shrove Tuesday, the English popular name for the day before Ash Wednesday, so called because of the ancient custom of receiving the Sacrament of Penance or being "shriven" on that day, in preparation for Lent The association of the day with pancakes is probably a relic of the ancient discipline according to which eggs might not be eaten during the ensuing 40 days of Lent

Shrub, any bush or woody plant Industries include the cloth trade (from Welsh wool) and coal-mining stems growing from the same root with associated manufactures. The The distinction between a shrub and a

Shuffle-board, a game played on a sheep are reared in large numbers, and ship-deck, in which wooden discs 6 in

Shrok in diameter are shoved by a kind of this and the central range is the basin

Shyok river of N W India tributary of the Indus rises in the Himalayas 6 "0 m S of the Karakoram Pass to which its valley is the chief route It came into prominence in 1996 when its upper waters were blocked by an ice dam forming an extensive lake In Aug 1929 the dam burst producing a rise of 50 it in the Indus

and causing disastrous floods Sialkot (1) District of the Punjab Agriculture is the chief occupation Area 1990 sq m 000 08G gog

) Capital of (1) and a British military station situated 70 m NE of Labore The main manufactures are paper and Army equipment (tents sports apparatus etc.) The town has intere ting ruins including a Sikh place of worship and a fortress Pop 70 600

Siam (Savam or Muare Thai) kingdom in the Indo-Chinese Peninsula bounded N and W by Burma N and L by French Indo China and extend mg S through the Malay Peninsula to the Malay States

From the N W mountains Relief extend in two roughly parallel chains



R valT mpl B sk k S am. of the r and extending far S

cue into squares numbered 1-10 from of the river Me Nam extending in a a distance of c 30 ft A variety of this N to S direction and E of the game has been known since the 15th | central range : the great basin of the



Street | B sk k Sam

Mekong (c 3000 m) which forms most of the L boundary The coast gener ally 19 low lying and along the W of the Malay Peninsula is fringed with island

Climate Flora and Fauna The climate is of the monsoon type the wet season corresponding to the English summer The heat is rarely excessive but the general humidity makes Siam unsuitable for Europeans Flora include mangroves and similar species on the coasts rice coconuts and tropical fruits in the centre and rich forests of teak ironwood and other commercial timbers in the N Tigers elephants thinoceroses many varieties of deer buffaloes snakes and croco diles are found

Agriculture The staple product is rice which forms the principal food of the natives and is also a large export one crossing the centre of the Irrigation schemes have increased the country and the other forming part area of arable land and much enlarged the output Tobacco rub

Between and coconuts are of

and sugar-cane are fairly widely grown Minerals and Industries. Tin is the chief product. Coal, iron, tungsten, copper, rubies, sapphires, silver, zine, and lead are also found. Industry, with the exception of mining lumbering, and rice-milling, is undeveloped. The main imports are cotton goods, machinery, and foodstuffs. Bengkok, the capital, is the largest town, other towns are Avudhya, Pak Nam, Nakon Patom, and Bhuket.

Races, Religior, Education, Trans-Besides Siamese and Laos, the population includes Chinese, Burmese, Shans, Cambodians, and 2000 Europeans and Americans The prcdominating religion is Buddhism Education is in the care of the State and is fairly well established Primary schools are compulsory, and free university is at Bangkok There are 2000 m of railways, 1500 m of roads. river transport is widely used civil aviation is gradually being introduced

History Siam attained its present approximate size, and became a united country, in the 14th cent Trade with Europe was begun in the 15th cent by Portuguese, who were supplanted by the English and Dutch Later this trade lapsed, and did not revive to any marked extent until the 19th cent, when treaties of friendship regulating commerce were made with Holland, Great Britain, France, and Japan The steady acquisition by France and England of the neighbouring territories freed the country from the border attacks which had gone on for centuries, and, after some territorial disputes with the French, which were satisfactorily settled by the end of the 19th cent, Siam was able to go steadily forward with various economic and social reforms, culminating in the popular government of 1932, when a limited monarchy replaced the former absolutism There was a revolutionary outbreak in 1933, which was suppressed Area, 200, 230 sq m, pop c 11, 700,000

Siamese Twins See Twins Sibelius, Jean Julius Christian (b

1865), Finnish composer, studied at Berlin and Vienny, later becoming principal of the Helsingfor. Conservatoire His Finlaria and Valse Triste have long been familiar to British audiences, and his larger works have more recently been performed in England His symphonies and symphonic poems such as Fapiela, En Sagi, and The Swan of Trivela, are recognised as works of genius. He has composed 7 symphonies, various other orchestral works, a violin concerto, chamber music, and a large number of songs.

Siberia, geographical district of the USSR in Asia, the territory extends from the Arctic Ocean to the Mongolian frontier and from the Urals to the Pacific, area, over 5,000,000 sq m The N is barren and arctic. but farther S many flowers and fruits In the N fur-bearing animals are hunted. Lake Baikal is the largest fresh-water lake in Russia The chief towns are Omsk, Tomsk, Krasnoyarsk, Irkutsk, Chita, ard Vladivostok, the eastern terminus of the Trans-Siberian railway Industries are scattered and very varied, they are mostly concerned with timber and the manufacture of food and clothing The Siberian dairy industry is important Gold is mined in the Far East The pop (c 19,250,000) is mainly composed of Russian emigrants, the rest are mainly Mongolian nomads-Burnats in the SE, Samoyedes along the Arctic and Tatars along the S and SW border A few of the Ostvak tribes along the Yenisti are believed to be survivors of the original inhabitants See also FAR-EASTERN ARIA

Sibyls, in Roman mythology, priestesses of Apollo who prophesied, when under his influence, their words being written in what were called the Sibylline verses, books, or leaves. These books were kept with great care until they were burned in the destruction of the Capitol in n c 83

Sicilian Vespers, The, the massacre of the French in Sicily, on March 30, 1282 So called because it started at vespers on Easter Monday its immer cause was the act of a French soldier in 1994 and president of the Royal insulting a bride on her way to church In 3 days the entire garrison of Charles | Among his best known works are his of Anjou was annihilated thus putting an end to Angevia rule in Sicily

Sicily an island off the S coast of Italy It is triangular in shape with its apex at the Strait of Messina which of his work separates it from the mainland There are good harbours at Messina Palermo Trapani Stracusa (Syracuse)

and Catania Sicily is hilly the highest points in the VE culminating in the active volcano Mount Etna (10 700) f.) In the W and S are low hills and coastal plains and there is a small plain in the E where several rivers of whi h the Suneto is the chief enter the Gulf of Catania The climate is warm and lavours the growth of flowers the olive and citrus fruits Grapes and many

tables are grown on the larger holdings Industries include wine making fruit preserving and the production of chemicals Area 9 936 sq m pop c 4 430 000 In the 8th cent sc the Creeks dons an actor 1773 She established began to plant colonies of which her reputation by her performance of

kinds of fruit are cultivated inten

tendered all her Si ilian possessions to others Rome and Scily became a Roman In the 9th cent. AD province the Suracens began their conquest of bite (qv) in the 11th cent it was th island

conquered by the Normans dier history see NAPLES ITALY Inclish artist born at Munich

Society of British Artists in 1928 portrait of George Moore The Camden Toun Murder and Hotel Royal Dieppe The British Museum the Tate Gallery and the Luxembourg possess specimens

Sickle a book shaped steel instru ment with handle having the cutting edge on the inner curve of the blade and used for cutting grass grain etc Sievon, ancient city State in the Peloponnesus adjoining Corinth on the W In the "th and 6th cent BC the city was ruled by benevolent tyrants of whom

Cleisthenes (namesake of the Athenian legislator) was the best known School of Si von produced such artists as the painter Apelles and the sculptor Lysippus In the 3rd cent. BC Aratus of Sicyon put new life into the sively and grain almonds and vege-Achæan League (qu) The city was deserted in the time of Pausanias Eiddons, Mrs Sarah (17.5-1831) English actress daughter of Roger kemble and sister of John Philip hemble (qv) married William Sid

Syracuse (founded by Corinth) was Isabella in Southerne a Fatal Varriage the most important From the 6th at Drury Lane 1783 She excelled in cent BC much of Smily was ruled by tragic roles notably as Lady Macbeth, tyrants including Gelo who defeated Volumnia in Corrolanus Queen Cath the Carthaginuans at Himera in 480 erine in He iry VIII Constance in BC. For the Athenian attack on Kin John etc Mrs Siddons retired Sicily in 415-413 BC see GREBK from the stage in 181. but appeared Hisrory In the 4th-3rd cent Carth | occasionally till 1819 Her portrait was age was dominant but at the end of the painted by Reynolds (as the Trage. first Punc War (41 n.C) she sur Muse) Gainsborough Lawrence and Sidereal Time, see OBSERVATORIES Siderite, another name for Chal-

Sidney Algernon (c 16_2-1683) For English politician He fought in the Parliamentarian army at the battle of Sickert, Walter Richard (b 1860) Marston Moor (1644) For his refusal his to take part in the trial of Charles I

father and grandfather were German and his opposition to Gromwels di painters He studied in London under tatorship he was deprived of the Whistler and later worked in Paris governorship of Diver Castle and went where he learned much from the French abroad he returned in 1652 but field impressionists. He was elected \(\) R.A at the Restoration and travelled in Europe return, but for his support of Monmouth was tried for treason in 1683, after the Rye House Plot, and beheaded His works include the Letters to Henry Savile and Discourses concerning Government

Sidney, Sir Philip (1554-1586), Enghish poet and courtier He was a favourite of Elizabeth, and became a patron of literature, Spenser dedicating the Shepherdes Calendar to him (1579) He was regarded as the flower of chivalry and the pattern of Elizabethan courtiers Arcadia (1590), a pastoral romance, was his first publication, but the sonnet-sequence, Astrophel and Stella (written c 1581, published 1591), which celebrates his love for Lady Penelope Rich, is his most important His Apologie for Poetrie (1581), an essay in criticism on classical lines, was a reply to Stephen Gosson, who had attacked the drama on moral 1585 he was made grounds Governor of Flushing, and in the next vear was killed in the Battle of Zutphen (q v)

Sidon, chief town in the S Lebanon district of Syria, on the Mediterranean coast, formerly the capital of Phoeni-Its harbour is gradually silting up, but it still does a flourishing trade in fruit, such as oranges The town is of great antiquity, and its prosperity made it the prey of marauders, from Biblical times onward It was sacked by Greeks, Persians, Romans, Egyptians, and Crusaders In the 17th cent it prospered under its Arab rulers Later known as Saida, it was during the World War attacked and occupied by the Allies, and after the War came under French mandate Pop c 13,500

Siebengebirge (or Seven Hills), group of volcanic hills, 1000-1500 ft high, on the Rhine, near Bonn One of the Drachenfels (1067 ft), has a ruined castle on its summit The highest is Ölberg (1522 ft) The district is a favourite resort of tourists

king of the lower Rhine, who captured known as the "White Man's Grave the treasure of the Nibelungs (qv)

In 1677 he was allowed to He is the central figure of Wagner's operas, The Ring of the Nibelings Siemens, Sir William (1823-1883)

an inventor and engineer, born 1 Hanover, came to England in 1844 His invention of a regenerative furnac using gaseous fuel revolutionised th manufacture of steel and glass, electricity, he improved the dynam with the Siemens armature, invente an electric furnace, and played considerable part in the laying telegraph cables on land and under th He was made a F.RS in 186 and became President of the Britis Association in 1882

Siena (or Sienna) (1) Italian de partment in Tuscany The province exports silks, wine, and wheat, an olives are grown Area, 1470 sq m pop (1931) 260,900 (2) Capital of (1 The town is noted for its many beaut ful buildings, and is connected with the names of several famous artist including Sodoma, Beccafumi, Don tello, and Duccio The Accademia Belle Arti has some fine examples the Sienese school of painting Ti university dates from 1300 Po 47,700

Sienkiewicz, Henryk (1846-1916 Polish novelist, is best known for I novel dealing with the life of Christia under the Emperor Nero, Quo Vadi (1895), which has been translated in many languages Other of his wor include Without Dogma (1893), T Third Woman (1898), and a trilogy historical novels

Sierra Leone, British colony as protectorate in W Africa, bounded I W, and NE by French Guinea, S by Liberia, and W by the Atlan Ocean The colony is chiefly co fined to a strip of land along the coa not more than a mile wide, the pr tectorate adjoins it to the N and E

The country is mainly a hilly plates rising gradually to the NE until reaches 5000 ft in parts T climate on the coast is very hot a Siegfried, in German legend, a damp, and the region was forme

The chief exports are palm-

palm kernels gunger and hides and King of Hungary in 1387. In 1396 he skins. The rubber industry once led a crusade against the Turks and flourishing has declined through over (q t)

Settlements had been estable hed on the coast as early as the 16th cent. by first the Portuguese and then the British mainly to carry on the slave trade The British colony dates from 1:87 the protectorate from 1896 Slavery was abolished in 1998

Area colony c 4000 so m protectorate 26 670 sq m Pop 1 67 000

Almeria R peak in Spain () Range in USA Whitney (14 a00 ft)

vicar general and chancellor of the is required diocese of Chartres On the eye of the fiplomatic ms non to The Hague and out failed in his object. He was sirens whistles and foghorns nade a member of the Directory but selped hapoleon in his coup detat a picture or symbol indicating the and after it produced a mod I con tiution. He retired but returned to tropous methods employed by Sano- were common to Greece and Rome

was routed at Nicopolis After many production The capital is Freetown protracted conflicts he was elected German king in 1410 and played a leading part in the Council of Constance (1414) Bohemia refused to recognise him as king and the Hussites and Turks attacked him without ceasing He was however crowned

emperor in 1433 Signalling, communication by means of a prearranged system Signalling has been practised by primitive peoples colony (1931) 96 400 protectorate since the earliest times among whom a drum or tom tom conveys news over Sierra Nevada (1) Yountain range long distances Beacon fires broadcast in Andalusia S Spain starting just tidings of the Armada trumpets i ere S of Granada it stretches E to the commonly used in battle in the l"th cent It culminates in the Field telegraphy is the most rapid and Cerro de Mulhacen (11 400 ft) highest effective and many thousand miles of ware were laid on all fronts in the World stretching roughly N N W from Cali War Wireless telegraphy a slower forms the W edge of the Mojave but enjoys the advantage that com Desert into Oregon part of it runs into munication cannot be cut by the Nevada It is a range of huge peaks enemy though deliberate jamming and deep canons some of which are may reduce its efficiency. Flags helio famous. The highest point is Mount graphs and electric signalling lamps permit of visual communication and Sieres, Emmanuel Joseph (1748- are useful where light cheap apparatus 1838) I rench statesman He became which does not easily get out of order

in the havy signalling flags have Revolution he wrote a namphlet | been used since the 13th cent. towards What as the Third Littate? in defence the end of the 17th the system was of the people and on the strength of it reorganised in its present form by Sir was elected deputy for I aris to the William Penn. For merchant versels States-General In the third National the International Signal Code was Assembly he voted for the death of drawn up in 1857 by the British Board Louis VVI in 1"93 was sent on a of Trade In the Navy special codes are used with semaphore or Morse A 1 98 attempted to enlist the aid of Most of the military methods of signal Prussa against the second coalition ling are employed and additionally Signboards, painted boards bearing

nature of the house outside which they are placed have been used since the he Senate in 1800 to defend the time of the ancient Fgyptians and

con to rid himself of the Jacobins | In the 16th and 17th cents sign Sigismund (1369-1437) Roman Em | boards were used in England by all efor son of Charles IV became kinds of shopkeepers to denote their largrave of Brandenburg to 13 8 and | wares even banks having them. Later

32

the custom became for the most part relectric motor whereby any success limited to public-houses and inns

Punning signboards were quite common, and also those with a device arising from a corruption of some familiar phrase, such as "Goat and Compasses" for "God Encompasses to switch on lamps to form any patter Us" The barber-surgeon's striped pole is still used by many burbers, who i are no longer surgeons, the three brass balls of the pawnbroker are said to be derived from the arms of thr Lombards, famous moneylenders of the Middle Ages

Signet, a private scal used on documents and personal letters The privy signet is the personal seal of the Sovereign used on private documents and under the sign manual, especially in the case of certuin writs issued in Scotland hence the title of the Scottish law officer Writer to the Signet

Sign-manual, an autograph signature, especially the royal signature giving validity to official documents A sign-manual warrant may authorise the affixing of the Great Seal, or appoint the holder of an office. The signmanual must always be countersigned by some Minister of the Crown, who is responsible to Parliament

Signorelli, Luca (c 1450-1523), Italian artist of the Tuscan school, born at Cortona He worked in Florence and Rome, and was engaged on some of the painting in the Sistine His finest work was done in Orvieto Cathedral, where he was landic statesman and author, playempoyed in 1499 on the magnificent frescoes in the chapel of S Brizio Examples of his work are in the Uffizi at Florence, in Berlin, and in the National Gallery

Signs, Electric Cheap current has led to the development of a very large industry, full of ingenious devices, for constructing brilliant signs for advertising purposes and other announcements The first type of sign developed consisted of numbers of incandescent lamps fixed on metal frames and having their leads connected to munity living in the Punjab, er

combination of lamps could be switch on and off. By covering a signbor with a large number of small lam connected to contacts corresponding arranged on a switchboard, it is possil for instance letters of the alphabet, pressing on the contacts a correspon ing shape cut in rietal. On the principle, signs exhibiting any desir lettering can be made, if letters a drawn across the switchboard co secutively, they appear to traacross the signLoard Announcemen of any length can thus be made keil to the public

Sil

Quite recently, the construction signs from gas discharge tubes fill with the mert gaves -neon, xenon, e -has developed into a large industr now that the technique of making su tubes in a durable form has be mastered Colour effects are pr duced apart from those given by t natural colour of the gas spectrum, using glass which fluoresces brilliant under the radiation emitted by t Another ingenious device mak use of thick plate glass, on which t lettering or other design is sand blaste Light is sent in at the edge of the gla and is totally reflected inside it excep ing where the sand blasting occur here it can escape, so that the san blasted parts appear luminous also TRAFFIC

Sigurdsson, Jón (1811-1879), Id a great part in the development modern Iccland To him is due t freeing of Icelandic trade in 185 which, until then, had been a monopo of Danish merchants In 1874 1 unceasing efforts obtained from De mark the grant of Home Rule, and t re-establishment of the Althing, t ancient Parliament of Iceland Sigurd son contributed valuable research work to Icelandic history and liter ture

Sikhs, an Indian religious cor automatic switch gear driven by an differing from the Hindus in rejection uch practices as purdah seclusion largest river is the Tista. The climate

lindu and Mohammedan religions le stressed the value of justice kind less and honesty and adhered to the any industries octrine of transmigration. He was

kang

ucceeded by nine other teachers the hud of whom Ram Das founded the acred city of Amritsar The last and nost famous of the nine was Govind singh (1666-1*08) who to some extent moke away from both Hinduism and Iohammedanism and wrote a supple nentary volume to Nanak a scriptures

He called the community Ahalsa the roperty of God and divided it into federated States as soon as it obtained political independence in 64 Runjeet Sin, h (1780-1939) con iolidated the States into a formidable ower in 1800 and a treaty was made mth Britain in 1809 Following his

leath the Sikhs made an attack on the British in 1840 but here heavily lefeated A further outbreak took slace in 1818 following which Britain unexed the Punjab and proved such good administrators that the Sikhs Hirschberg Neustadt and Glatz upported the British in the Indian

Mutiny They were largely recruited or the native arms in consequence and rendered good service in the World War St king river of S China length s

50 m It rises in the province of names flows generally E entering the S China Sea by a huve delta at the N ection (known as Canton R or Chu

means of communication in S China British protection in the Himalayas from 1000 to _8 000 ft above sea level thenjanga (28 146 ft) Do (2 500 ft) Poland subject to an arrangement to and Chomiomo (380 ft) The prevent dislocation of industry The

varies from subtropical to Arctic and are cultivated and some woollens are made There are no towns and hardly Buddhism is the official religion. Area "8 0 so m pop (1931) 109 800

Silesus

Silenus in classical mythology the friend and follower of Bucchus repre sented as a corpulent red faced happy old man garlanded with flowers and riding on a donkey. His name was also given to Tauns and Satyrs in general Silesia district in Central Europe

mo the in Germany partly in Poland and Czechoslovakia formerly part of the German and Austrian Empires The most important industry is mining mainly coal but also iron zinc silver and some precious stones and rarer metals The main industries are associated with the mines-smelt ing and heavy engineering

Chief towns are Breslau (q v) capital of German Silesia (pop 539 800) Görlitz (pop 91 700) Schweidnitz History Before its incorporation

in AD 1000 by Poland Silesia was occupied by clans of Slavonic origin Eventually it fell under Austrian domination and so remained till Frederick the Great of Prussia seized the greater part of it Prussian Yunnan and under various local Silesia remained a German province till the World War The Versailles Treaty awarded Southern (Austrian) Silesia to Czechoslovakia and Poland king) of which stands Canton The and provided for a plebiscite of the ther is one of the most important inhab tants whether industrial Upper Silesia should belong to I oland or Sikkim, small Indian State under Germany The vote showed a substantial majority in favour of Germany bounded W by Aepal S by Bengal but Polish majorities in several dis and N and E by Tibet The State is tricts. Acrimonious disputes followed entirely composed of mountain areas Eventually the League of Nations made an award dividing industrial the peaks include the famous han Upper Silesia between Germany and

over conditions of trade and industry Area, German Silesia, 14,000 sq m, Polish Silesia, 1633 sq m, Czechoslovakian Silesia, 1708 sq m Pop German Silesia, c 4,500,000, Polish Silesia, 1,125,000, Czechoslovakian Silesia, 735,000

Silica, see Silicon

Silicon, a non-metallic element and. after oxygen, the most common of all the elements It does not occur in the uncombined state, but its compounds form the greater part of all rocks, clays, and soils in which it occurs in the form of silicon dioxide or silica, SiO2, and as metallic silicates Silica is found also in both vegetable and animal organ-Transparent quartz or rock crystal is crystalline silica Numerous other forms of silica, such as, for instance, sand, also occur naturally Elementary silicon can be obtained by the reduction of the dioxide with magnesium or of the tetrachloride with | leaves sodium (see ELEMENTS)

Pure silicon does not find any appreciable industrial utilisation as such, but it is an important constituent of various alloys, especially steel

Compounds of Silicon Chemically silicon resembles carbon Of the silicon compounds probably the most the Northumberland coast An eve important is the dioxide, or silica, employed in enormous quantities in the manufacture of glass (q v), of which it is the principal constituent Glass made entirely of silica has certain very valuable properties, such as a small coefficient of thermal expansion, enabling it to be heated to redness and then quenched in water without fracture, it is also transparent to ultraviolet light Quartz is employed in the manufacture of optical apparatus and can exist in dextro-rotatory and lævorotatory (qq v) forms

After silica the most important compound is carbon silicide (or silicon carbide), CSi, which is manufactured in the electric furnace by heating silica with an excess of carbon, according to the reaction

 $S_1O_2 + 3C \rightarrow CS_1 + 2CO$

award has given rise to many disputes | Silicon carbide is usually known by i trade name of carborundum, and it widely employed as an abrasive It also used in the manufacture electrical resistances

Other silicon compounds of practical importance are calcium silicide, CaSi employed in the preparation of expl sives, silicon tetrachloride SiCl, use in the production of smoke screen (qv, see also CHEMICAL WARFARE) and various fluo-silicates used in th manufacture of certain types of pain and of concrete floors The numerou organic compounds of silicon are on of theoretical interest

Silk, Artificial, see ARTIFICIAL SILK Silkworm, the caterpillar of various species of moths, including the atla moth, which spins a cocoon of sil of commercial value These moth are mostly found in the East, when their cultivation forms an importar industry The larvæ feed on mulbers

Sill (geol), a sheet of igneous roo intruded into overlying beds and lying nearly horizontal over a large are Sills are often composed of dolers (q v) This is the case in the famou Whin Sill of the N of England, extend ing some 80 m from Westmorland t longer sill occurs in the Hudson I district of Canada A great number of small sills occur in the volcanic di tricts of N Ireland and W Scotland and sills are frequently associated wit volcanoes, as in the Sandwich Island

Silo, a pit, trench, steel tower, o building from which air is excluded used for storing and preserving fodde in a green compressed state (se ENSILAGE)

Silurian System, term for the Palæo zoic rocks laid down during the perio between the Ordovician and Devonia The limits of the system at not easy to define, and for a long tin the geological survey considered th Ordovician system as a lower division of the Silurian, until Lapworth (qu drew up the present scheme of classi cation of the beds Like the Orde